

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P563206

Luminaire Tested: **SQ4-PP3-025U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563206
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

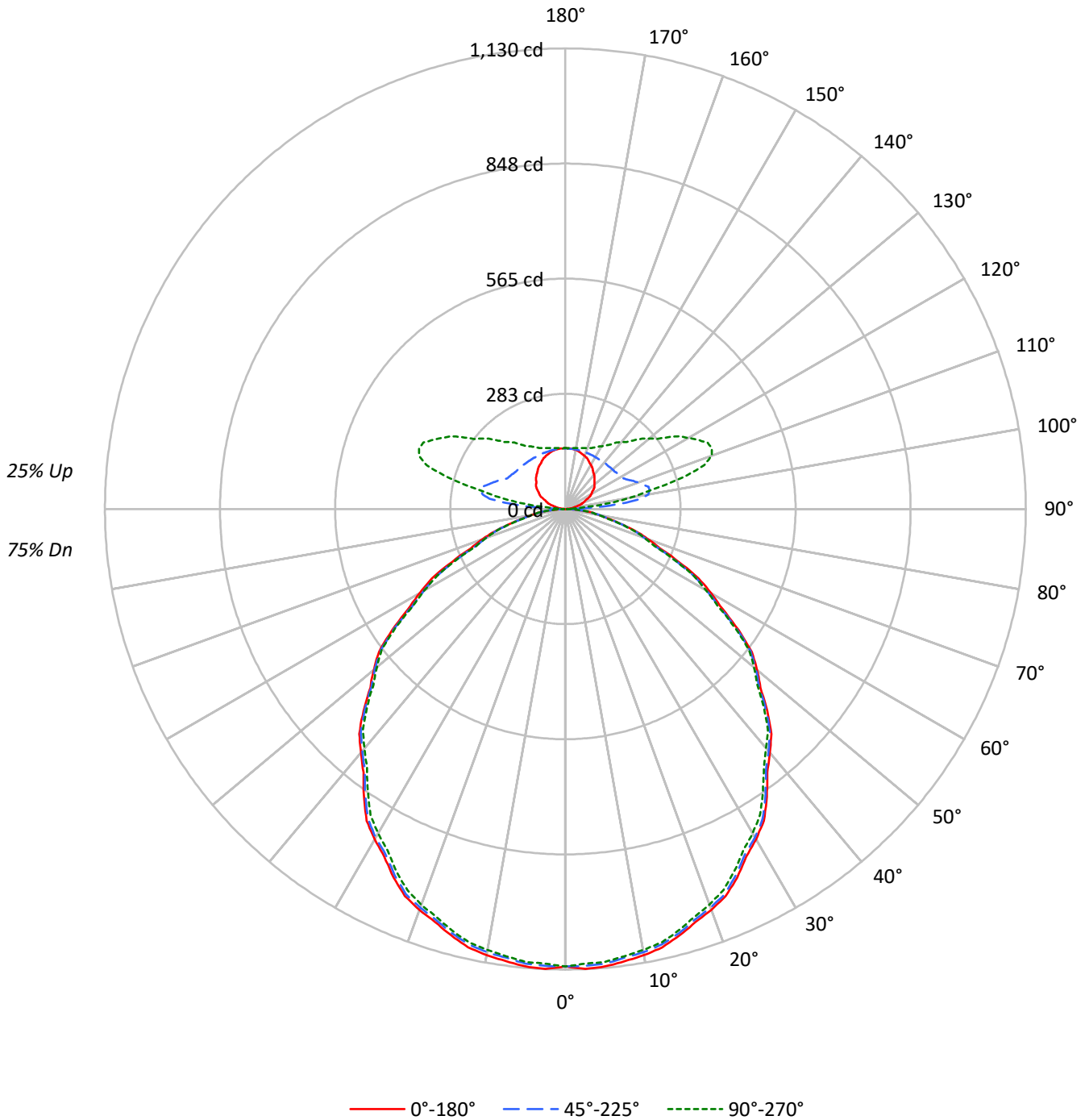
Lumens per Lamp: N/A
Luminaire Lumens: 3839.8 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75				
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	77	73	76	71	67	69	65	62	62	60	57	54				
3	87	77	69	63	82	73	67	61	67	61	57	61	57	53	55	52	49	46				
4	79	68	60	54	75	65	58	52	60	54	49	54	49	45	50	46	42	39				
5	73	61	53	46	69	58	51	45	54	47	42	49	44	40	45	40	37	34				
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	41	36	33	30				
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	33	29	27				
8	58	45	37	32	55	44	36	31	40	34	29	37	32	28	34	29	26	24				
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	32	27	24	22				
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10356	10356	10356
5°	10433	10369	10333
10°	10415	10342	10295
15°	10346	10290	10234
20°	10278	10220	10142
25°	10156	10085	9986
30°	9967	9915	9790
35°	9707	9640	9518
40°	9397	9338	9230
45°	9140	9076	8986
50°	8812	8756	8671
55°	8356	8245	8181
60°	7606	7388	7353
65°	6702	6423	6401
70°	5786	5546	5546
75°	4980	4909	4841
80°	4389	4442	4341
85°	3440	3747	3747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	2.8
10°-20°	303.1	7.9
20°-30°	454.0	11.8
30°-40°	532.5	13.9
40°-50°	534.2	13.9
50°-60°	455.7	11.9
60°-70°	297.2	7.7
70°-80°	149.1	3.9
80°-90°	42.1	1.1
90°-100°	72.6	1.9
100°-110°	190.9	5.0
110°-120°	198.0	5.2
120°-130°	158.8	4.1
130°-140°	124.6	3.2
140°-150°	95.6	2.5
150°-160°	68.9	1.8
160°-170°	42.1	1.1
170°-180°	14.2	0.4
0°-30°	863.2	22.5
0°-40°	1395.7	36.3
0°-60°	2385.6	62.1
0°-90°	2873.9	74.8
90°-120°	461.6	12.0
90°-150°	840.6	21.9
90°-180°	966.0	25.2
0°-180°	3839.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1126	1116	1120	1116	1116	107
15°	1083	1073	1077	1073	1071	306
25°	998	986	991	982	981	459
35°	862	853	856	846	845	538
45°	700	696	696	689	689	539
55°	520	518	513	510	509	462
65°	307	301	294	292	293	306
75°	140	140	138	137	136	152
85°	32	35	35	35	35	38
90°	1	3	8	4	4	2
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1122.5	1122.5	1122.5	1122.5	1122.5
2.5°	1129.6	1120.4	1122.5	1120.9	1116.3
5°	1126.5	1115.9	1119.6	1115.7	1115.7
7.5°	1118.8	1107.3	1110.9	1107.0	1106.8
10°	1111.7	1100.2	1103.9	1099.9	1098.9
12.5°	1101.5	1090.0	1094.4	1089.7	1089.5
15°	1083.2	1072.6	1077.3	1073.3	1071.4
17.5°	1062.5	1051.0	1056.6	1051.1	1050.3
20°	1046.8	1035.3	1040.9	1033.0	1033.0
22.5°	1027.9	1016.4	1022.8	1012.6	1012.6
25°	997.6	986.1	990.7	981.8	980.9
27.5°	961.6	950.2	955.1	945.1	944.9
30°	935.6	925.0	930.7	919.9	918.9
32.5°	907.3	897.5	901.6	890.7	889.8
35°	861.8	853.2	855.9	846.1	845.1
37.5°	814.0	805.2	808.3	799.8	799.5
40°	780.2	774.4	775.3	768.3	766.4
42.5°	748.7	742.2	743.0	736.1	735.7
45°	700.5	695.7	695.6	688.7	688.7
47.5°	649.3	645.7	644.6	638.9	638.7
50°	613.9	611.0	610.0	605.0	604.1
52.5°	576.9	575.6	572.2	568.1	567.9
55°	519.5	517.5	512.6	509.6	508.6
57.5°	457.1	453.2	447.6	443.3	444.1
60°	412.2	408.4	400.4	398.5	398.5
62.5°	368.9	364.3	356.3	353.6	355.2
65°	307.0	301.2	294.2	292.2	293.2
67.5°	250.7	245.5	237.9	237.9	237.1
70°	214.5	211.6	205.6	205.6	205.6
72.5°	182.2	180.9	176.5	176.5	175.7
75°	139.7	139.7	137.7	136.7	135.8
77.5°	104.7	105.1	104.1	103.1	101.3
80°	82.6	84.6	83.6	82.6	81.7
82.5°	62.2	64.1	63.9	62.2	62.0
85°	32.5	35.4	35.4	35.4	35.4
87.5°	8.8	12.3	14.1	13.4	14.1
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)